

Appendix table 6-5.

Total, Federal, and non-Federal R&D expenditures at academic institutions, by field and source of funds: 1997

Field	Total R&D		Millions of dollars		Percentages	
	Millions of dollars	Percent	Federal	Non-Federal ^a	Federal	Non-Federal ^a
TOTAL SCIENCE & ENGINEERING						
24,348.3	100.0	14,502.1	9,846.2	59.6	40.4	
Total sciences	20,529.8	84.3	12,233.1	8,296.7	59.6	40.4
Physical sciences	2,363.6	9.7	1,704.9	658.7	72.1	27.9
Astronomy	287.8	1.2	185.2	102.6	64.4	35.6
Chemistry	814.9	3.3	557.6	257.3	68.4	31.6
Physics	1,051.8	4.3	816.1	235.7	77.6	22.4
Other	209.1	0.9	146.0	63.1	69.8	30.2
Mathematics	293.4	1.2	205.9	87.5	70.2	29.8
Computer sciences	718.7	3.0	513.6	205.1	71.5	28.5
Environmental sciences	1,538.8	6.3	1,034.0	504.8	67.2	32.8
Atmospheric sciences	235.7	1.0	186.2	49.6	79.0	21.0
Earth sciences	455.4	1.9	271.3	184.0	59.6	40.4
Oceanography	551.2	2.3	376.4	174.8	68.3	31.7
Other	296.6	1.2	200.1	96.4	67.5	32.5
Life sciences	13,607.9	55.9	7,881.1	5,726.8	57.9	42.1
Agricultural sciences	1,979.5	8.1	568.4	1,411.1	28.7	71.3
Biological sciences	4,227.3	17.4	2,718.1	1,509.2	64.3	35.7
Medical sciences	6,866.9	28.2	4,292.1	2,574.8	62.5	37.5
Other	534.2	2.2	302.5	231.7	56.6	43.4
Psychology	386.9	1.6	269.1	117.8	69.6	30.4
Social sciences	1,116.6	4.6	418.0	698.7	37.4	62.6
Economics	250.3	1.0	88.8	161.5	35.5	64.5
Political science	175.9	0.7	52.7	123.2	29.9	70.1
Sociology	252.6	1.0	120.0	132.5	47.5	52.5
Other	437.9	1.8	156.5	281.4	35.7	64.3
Other sciences	503.8	2.1	206.4	297.4	41.0	59.0
Total engineering	3,818.5	15.7	2,269.0	1,549.4	59.4	40.6
Aeronautical/astronautical	244.3	1.0	180.3	64.0	73.8	26.2
Bioengineering/biomedical	65.8	0.3	41.2	24.6	62.6	37.4
Chemical	317.4	1.3	167.5	149.9	52.8	47.2
Civil	452.8	1.9	196.7	256.1	43.4	56.6
Electrical/electronic	948.9	3.9	634.6	314.3	66.9	33.1
Mechanical	519.8	2.1	327.2	192.6	62.9	37.1
Materials	391.7	1.6	223.1	168.6	57.0	43.0
Other	877.8	3.6	498.3	379.4	56.8	43.2

^aSee appendix table 6-2 for detail on non-Federal sources.SOURCES: National Science Foundation, Division of Science Resources Studies (NSF/SRS), *Academic Research and Development Expenditures: Fiscal Year 1997, Detailed Statistical Tables*, NSF 99-336 (Arlington, VA: 1999); and NSF, special tabulations.

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